IN THE CLAIMS

Please cancel claim 1 without prejudice:

1. Cancelled.

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Please add the following claims:

- 2. A wireless communication device for fast generation of a cryptographic key, comprising:
 - a memory for storing said cryptographic key; and

a processor for generating said cryptographic key, said cryptographic key generated upon termination of a wireless communication and stored in said memory, wherein said cryptographic key is used for encrypting a subsequent communication by said wireless communication device.

- 3. The apparatus of claim 2, wherein said cryptographic key comprises a public key.
- 4. The apparatus of claim 2, wherein said cryptographic key comprises a private key.
- 5. A method for fast generation of a cryptographic key, comprising: generating said cryptographic key upon termination of a wireless communication; storing said cryptographic key; and

using said cryptographic key in a subsequent wireless communication to encrypt said subsequent wireless communication.

6. The method of claim 5, further comprising: determining whether said cryptographic key has been previously stored; and using said cryptographic key in a subsequent wireless communication to encrypt said subsequent wireless communication if said cryptographic key has been previously stored; and



generating a second cryptographic key and using said cryptographic key in a subsequent wireless communication to encrypt said subsequent wireless communication if said cryptographic key has not been previously stored.

- 7. The method of claim 5, wherein said cryptographic key comprises a public key.
- 8. The method of claim 5, wherein said cryptographic key comprises a private key.
- 9. A wireless communication device for fast generation of a cryptographic key, comprising:

means for storing said cryptographic key; and

means for generating said cryptographic key, said cryptographic key generated upon termination of a wireless communication and stored in said memory, wherein said cryptographic key is used for encrypting a subsequent communication by said wireless communication device.

- 10. The apparatus of claim 9, wherein said cryptographic key comprises a public key.
- 11. The apparatus of claim 9, wherein said cryptographic key comprises a private key.